

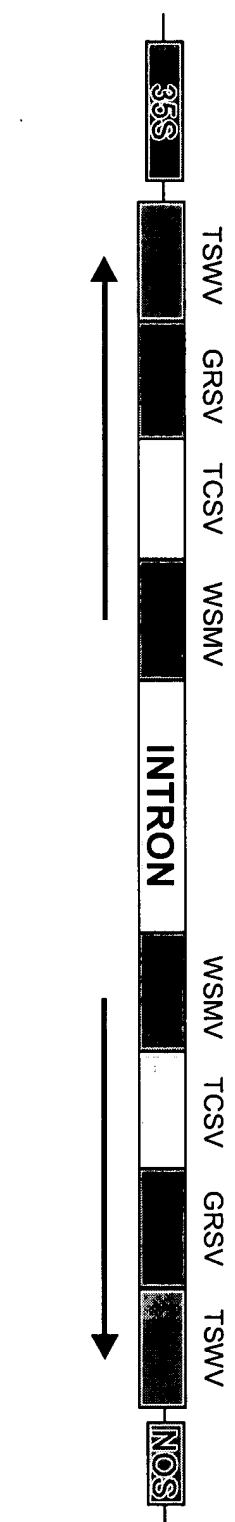
Exhibit B

## GM approaches TSWV work update

Etienne Bucher & Marcel Prins



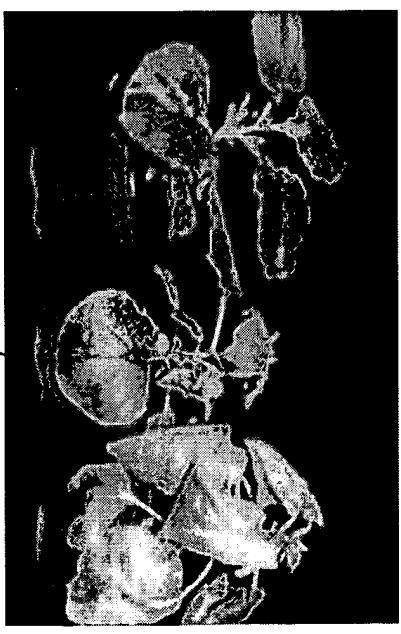
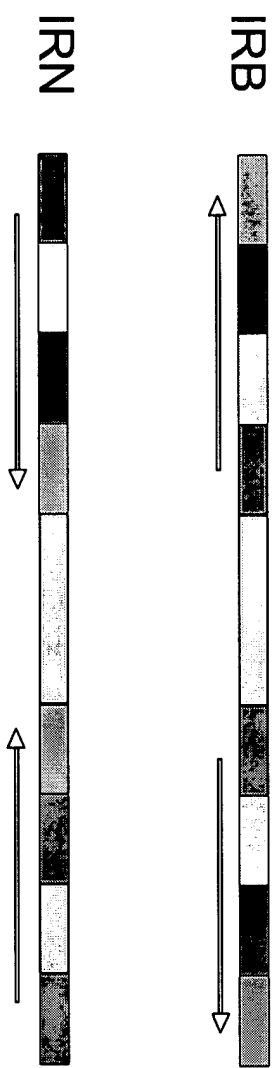
WAGENINGEN UNIVERSITY  
PLANT SCIENCES



- Several permutations of TOSPO virus components - preferred one represented above
- Very challenging transformations (*Nicotiana benthamiana*)
- Seed from Primary transformants to be tested for TSWV resistance
- Resistant lines to be further characterized (siRNAs, Northern, Southern) + other viruses

# GM approaches TSWV work update

Line name	Inoculated plants	Resistant plants	%resistant
IRB2	12	11	92%
IRB4	24	24	100%
IRN5	15	15	100%



IRB / wt  
Low-homology  
hairpin

Latest! 9 of 11 IRB lines tested showed resistance against all 4 viruses

IRB cassette has now been introduced into an FTO expression construct (ubq + tP12)



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## Resistance analysis of the IRB lines

percentage of resistance against:

	TSWV	GRSV	TCSV*	WSMV	Mix*
IRB2	100%	NA	NA	NA	NA
IRB4	100%	100%	100%	100%	100%
IRB5	0%	0%	0%	0%	0%
IRB6	100%	100%	100%	100%	100%
IRB7	100%	100%	100%	100%	100%
IRB8	100%	100%	100%	100%	100%
IRB9	100%	100%	100%	100%	100%
IRB10	100%	100%	100%	100%	100%
IRB11	100%	100%	100%	100%	100%
IRB12	100%	100%	100%	100%	100%
IRB13	0%	0%	0%	0%	0%
IRB14	100%	100%	100%	100%	100%

83% of all IRB lines tested showed resistance against all viruses

The TCSV inoculum was contaminated with an unknown virus, resulting in an susceptible phenotype for all only wild-type control plants were infected with TCSV but not the transgenic lines

Furthermore 5 additional IRB lines are being tested together with 13 IRN lines